

ABSTRACT OF JP 56159300

AN 96:124985 CA
 TI Manufacture of granular **detergents**
 PA Hashimura, Takashige, Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
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 DT Patent
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 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

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AB The manuf. of granular **detergents without heating** involves **mixing** of Na₂CO₃-contg. additives with a **nonionic** (.gtoreq.50%)-**anionic surfactant mixt.** in an upright cylindrical granulator equipped with a stirrer having a flat upper blade and an upward-curving lower blade. For example,

a granular **detergent** was prepd. by **mixing** a **mixt.** of lauric diethanolamide **nonionic surfactant** 500, lauryl **sulfate anionic surfactant** 600, and H₂O 300 g with a **mixt.** of Na₂CO₃ 3500, fatty acid soap 1000, Na **silicate** 500, and CM-cellulose and others 100 g for 2 min.

ST granular **detergent** manuf

IT Surfactants

(anionic, in granular **detergent** manuf.)

IT **Detergents**

(granular, manuf. of, sodium carbonate-contg. additives and surfactants

in)

IT Surfactants

(nonionic, in granular **detergent** manuf.)

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